

# **Curriculum Vitae**



HOLONEC RODICA CARMEN

rodica.holonec@ethm.utcluj.ro

#### **PERSONAL INFORMATION**

First name(s) / Surname(s)
Telephone(s)
E-mail(s)
Nationality

#### WORK EXPERIENCE

Name and address of employer

Type of activity/sector of activity

Main activities and responsibilities

Occupation or position held

#### Dates

2003 - present

1993 - 2003

Lecturer

+40264202422

Romanian

Technical University of Cluj-Napoca, Str. Memorandumului, no. 28, Cluj-Napoca, Romania Faculty of Electrical Engineering, Department of Electrotechnics and Measurements **Associate Professor** Didactic and research activity

Technical University of Cluj-Napoca, Str. Memorandumului, no. 28, Cluj-Napoca, Romania

Faculty of Electrical Engineering, Department of Electrical Measurements

Dates

Dates

Name and address of employer Type of activity/sector of activity Occupation or position held Main activities and responsibilities

#### 1989 - 1993

Name and address of employer Type of activity/sector of activity Occupation or position held Main activities and responsibilities

#### Dates

Name and address of employer Type of activity/sector of activity Occupation or position held Main activities and responsibilities Technical University of Cluj-Napoca, Str. Memorandumului, no. 28, Cluj-Napoca, Romania Faculty of Electrical Engineering, Department of Electrical Measurements Assistent Didactic and research activity

Didactic and research activity

#### 1986 - 1989

Enterprise Electrotimiş, Timişoara, Calea Buziaşului, no. 11 Department of Design **Trainee engineer** Elaboration of electrical and electronic systems projects

Dates Name and address of employer Type of activity/sector of activity	2012 – 2024 Technical University of Cluj-Napoca, Str. Memorandumului, no. 28, Cluj-Napoca, Romania Senate of the Technical University of Cluj-Napoca
Occupation or position held	<b>Member of the Senate</b> , President of the Commission for relations with the socio-economic environment and with the national and international academic environment, titles and distinctions
Main activities and responsibilities	Administrative and institutional development activities
Dates	2008 - 2012
Name and address of employer	Technical University of Cluj-Napoca, Str. Memorandumului, no. 28, Cluj-Napoca, Romania

Administrative and institutional development activities

Type of activity/sector of activity Occupation or position held Main activities and responsibilities

# **EDUCATION AND TRAINING**

#### Dates

Dates

Name and type of organization providing education and training Title of qualification awarded Principal subjects/occupational skills

1995-1999 Technical University of Cluj-Napoca

#### PhD in Electrical Engineering

PhD thesis with the title: Contributions to the development of measuring equipment in virtual technique and applications, Cluj-Napoca Technical University, 1999

Council of the Faculty of Electrical Engineering, Technical University of Cluj-Napoca

Member of the Council of the Faculty of Electrical Engineering

1981-1986

Polytechnic Institute of Cluj-Napoca, Faculty of Electrical Engineering, Romania

Faculty of Electrical Engineering, Section - Electrical Engineering

# **DIDACTIC ACTIVITY**

Teaching Courses	The study program		
Electronic and Telecommunications Measurements	Applied Electronics (English), Technologies and Telecommunications Systems (English)	II	
Electronic Measurements and Sensors	ents and Computer Science and Information Technology (English),		
Measurements and Transducers	Automation and Applied Informatics (English)	II	
Virtual instrumentation	Instrumentation and data acquisition- Electrical Engineering	IV	
Digital image processing	Instrumentation and data acquisition- Electrical Engineering	IV	
Biometrics	Applied Engineering Sciences in medicine-master	I Master	

Name and type of organization providing education and training Title of qualification awarded Principal subjects/occupational skills **Engineer in Electrical Engineering** 

## RESEARCH

Books	Author/co-author of over 10 books;				
Scientific publications	Over 108 articles				
National Grants	7 research projects (1 director project; 6 national projects – team member)				
	Research and innovation project based on recovery of the components and materials from IT and telecommunication waste, (TRADE-IT) PN-III-P1-1.2-PCCDI-2017-0652, Contract nr. 84PCCDI/2018, (MAS group leader)				
OTHER STUDIES AND					
INTERNSHIPS					
Dates	1996 - 3 months Tempus internship				
Field of study	Electronic measurements				
The name and type of the institution where the internship took place	ENSEMM, Besançon, Franta				
PROFESSIONAL COMPETENCE					
Areas of competence	Electrical and electronic measurements, Sensors and transducers, Data acquisition, Virtual instrumentation, Digital Image Processing, Biomedical Signal Measurement, Biometrics				
ADDITIONAL INFORMATION					
Dates	2016 – present				
Occupation or position held	Member of the "Societatea Națională de Inginerie Medicală și Tehnologie Biologică" Association - SNIMTB				
Main activities	Dissemination of information regarding the use of modern technology in the fields of medical, clinical and biological engineering.				
Dates	2004 – present				
Occupation or position held	Member of IEEE				
	Member of the IEEE Instrumentation and Measurement Society (since 2009)				
	Member of the IEEE Standards Association (2016-2019)				
Main activities	Dissemination of information regarding the use of modern technology in the fields of electrical engineering, electronic measurements and instrumentation				

## PERSONAL SKILLS AND COMPETENCES

Mother tongue(s) Other language(s) Self-assessme

Romanian

Other language(s) Self-assessment	Understanding		Speaking		Writing
European level (*)	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
French	B2	B2	B2	B2	B2

# Engli Fren

#### SIGNIFICANT BOOKS PUBLISHED IN THE LAST 10 YEARS (MAX 10)

### SIGNIFICANT PAPERS PUBLISHED IN THE LAST 10 YEARS (MAX 10)

- Instrumentație virtuală: lucrări de laborator / Rodica Holonec, Radu Adrian Munteanu, Romul Copîndean, Florin Drăgan, Cluj-Napoca: U.T.Press, 2018
- [2] Automate programabile: îndrumător de laborator / Romul Copîndean, Rodica Holonec, Florin Drăgan, Călin Mureşan,U.T. Press, 2020
- [3] Automate programabile: suport de curs / Romul Copîndean, Rodica Holonec, Florin Drăgan, Călin Mureşan, Cluj-Napoca: U.T. Press, 2023
- [1] Project-oriented approach in teaching programming to the first year undergraduate students in Electrical Engineering, Laura Grindei, Claudia Constantinescu, Adrian Bojita, Rodica Holonec, Laszlo Rapolti, 2023 10th International Conference on Modern Power Systems (MPS), Publisher: IEEE
- [2] A Hardware Optimized Storage and Retrieval System for Smart Warehousing Applications, Robert Reman, Laszlo Rapolti, Madalin Ardelean, Rodica Holonec, Calin Munteanu, Vasile Topa, 2022 International Conference and Exposition on Electrical And Power Engineering (EPE), Publisher: IEEE
- [3] Automated Sorting of Pharmaceutical Waste Using Machine Vision Technology, Laszlo Rapolti, Rodica Holonec, Laura Grindei, Oana Viman, 7th International Conference on Advancements of Medicine and Health Care through Technology: Proceedings of MEDITECH-2020, 13-15 October 2020, Publisher: Springer International Publishing
- [4] Sorting System for e-Waste Recycling using Contour Vision Sensors, Rapolti Laszlo, Rodica Holonec, Romul Copîndean, Florin Dragan, 2019 8th International Conference on Modern Power Systems (MPS), Publisher: IEEE
- [5] Experimental stand for sorting components dismantled from printed circuit boards, Laszlo Rapolti, Holonec Rodica, Laura Grindei, Marius Purcar, Florin Dragan, Romul Copîndean, Robert Reman, 2021, Minerals Journal, Volume 11, Issue 11, Pages 1292, Publisher: MDPI
- [6] Non-chemical treatments to improve the seeds germination and plantlets growth of sessile oak, Rodica Holonec, Oana Viman, Irina M Morar, Steluţa Sîngeorzan, Camelia Scheau, Horia D Vlasin, Petru Truta, Horea Criveanu, Liviu Holonec, Alina M Truta, Journal of Notulae Botanicae Horti Agrobotanici Cluj-Napoca, Volume 49, Issue 3, Pages 12401-12401
- [7] Techniques for sorting components from dismembered medical PCBs, R Holonec, L Grindei, M Purcar, R Copîndean, F Dragan, 6th International Conference on Advancements of Medicine and Health Care through Technology; 17–20 October 2018, Cluj-Napoca, Romania: MEDITECH 2018, Pages 59-64, Publisher: Springer Singapore
- [8] The PLC implementation of an automated sorting system using optical sensors, 2018, R Copîndean, Rodica Holonec, F Dragan, Acta Electrotehnica 58 (4), pp 312-316, ISSN 1841-3323,
- [9] An Electooculogram Based Virtual Instrumentation System, Rodica Holonec, M. Gabor, R. Copîndean, F. Drăgan, Acta Electrotehnica, nr.5, vol.56, pp 225-229, Cluj-Napoca, 2015, ISSN 1841-3323
- [10] Self-guided AR'Drone using LabVIEW, Rodica Holonec, R Copindean, F Dragan, L Rápolti, Acta Electrotehnica, 2016, vol 57, nr 5, pp 600-603, ISSN 1841-3323

Cluj-Napoca, Date: September 2024 Name and signature: Conf.dr.ing. **Rodica Holonec**